IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	Art Unit: 2815				
Shunpei YAMAZAKI et al.)	Examiner: B. Baumeister				
Serial No. 10/084,935)	CERTIFICATE OF MAILING				
Filed: March 1, 2002)	I hereby certify that this correspondence is being deposited with				
For: INSULATING FILM AND)	The United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents,				
METHOD OF PRODUCING)	P.O. Box 1450, Alexandria, VA 22313-1450, on January 22, 2004.				
SEMICONDUCTOR DEVICE)					

RESPONSE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The Official Action mailed August 22, 2003, has been received and its contents carefully noted. Filed concurrently herewith is a *Request for Two Month Extension of Time*, which extends the shortened statutory period for response to January 22, 2004. Accordingly, the Applicants respectfully submit that this response is being timely filed.

The Applicants note with appreciation the consideration of the Information Disclosure Statements filed on March 1, 2002, June 4, 2002, October 3, 2002, and April 11, 2003. The Applicants await consideration of the Information Disclosure Statement filed December 16, 2003.

Claims 1-34 are pending in the present application, of which claims 1, 11, 19 and 27 are independent. For the reasons set forth in detail below, all claims are believed to be in condition for allowance.

Paragraph 2 of the Official Action rejects claims 1-34 as anticipated by U.S. Patent No. 5,313,075 to Zhang et al. The Applicants respectfully traverse the rejection because the Official Action has not established an anticipation rejection.

As stated in MPEP § 2131, to establish an anticipation rejection, each and every element as set forth in the claim must be described either expressly or inherently in a single prior art reference. <u>Verdegaal Bros. v. Union Oil Co. of California</u>, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987).

Docket No. 0756-2447 Serial No. 10/084.935

The Applicants respectfully submit that an anticipation rejection cannot be maintained against the independent claims of the present invention. Zhang does not teach all the elements of the independent claims, either explicitly or inherently. Independent claims 1, 11, 19 and 27 recite, among other features, a specific carbon concentration range (5x10¹⁹ cm⁻³ or less) of an insulating film comprising silicon oxide. The Official Action asserts that the oxide in Zhang "includes C at a concentration of 5e18 cm⁻³ (col. 10, lines 60-64)" (page 3, Paper No. 11). However, this portion of Zhang describes the carbon concentration in "the semiconductor film." Zhang does not teach a specific carbon concentration range (5x10¹⁹ cm⁻³ or less) of an insulating film comprising silicon oxide, either explicitly or inherently.

Since Zhang does not teach all the elements of the independent claims, either explicitly or inherently, an anticipation rejection cannot be maintained. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. § 102(e) are in order and respectfully requested.

Paragraph 3 of the Official Action rejects claims 1-34 as anticipated by JP 04-165679 to Yamazaki, or in the alternative, as obvious based on the combination of Yamazaki '679 and JP 04-032267 to Chiyou. The Applicants respectfully traverse the rejection because the Official Action has not established an anticipation rejection and has not made a *prima facie* case of obviousness.

As stated in MPEP §§ 2142-2143.01, to establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. Obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either explicitly or implicitly in the references themselves or in the knowledge generally available to one of ordinary skill in the art. "The test for an implicit showing is what the combined teachings, knowledge of one of ordinary skill in the art, and the nature of the problem to be solved as a whole would have suggested to those of ordinary skill in the art." In re Kotzab, 217 F.3d 1365,

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1370, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000). <u>See also In re Fine</u>, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988); <u>In re Jones</u>, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

The prior art, either alone or in combination, does not teach or suggest all the features of the independent claims. As noted in the Official Action, Yamazaki '679 and Chiyou appear to correspond to the Japanese patent applications to which Zhang claims foreign priority. The Applicants respectfully submit that Yamazaki '679 and/or Chiyou do not teach or suggest a specific carbon concentration range (5x10¹⁹ cm⁻³ or less) of an insulating film comprising silicon oxide.

Since Yamazaki '679 and/or Chiyou do not teach or suggest all the claim limitations, an anticipation rejection and a *prima facie* case of obviousness cannot be maintained. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §§ 102(b) and 103(a) are in order and respectfully requested.

Should the Examiner believe that anything further would be desirable to place this application in better condition for allowance, the Examiner is invited to contact the Applicants' undersigned attorney at the telephone number listed below.

Respectfully submitted,

Eric J. Robinson

Reg. No. 38,285

Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, Virginia 20165 (571) 434-6789

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	Application Number	10/084,935			
TRANSMITTAL	Filing Date	March 1, 2002 Shunpei YAMAZAKI et al. 2815			
FORM	First Named Inventor				
. 011	Group Art Unit				
ed for all correspondence after initial filing)	Examiner Name	B. Baumeister			

Attorney Docket Number 0756-2447 Total Number of Pages in This Submission ENCLOSURES (check all that apply) After Allowance Communication to **Assignment Papers** Fee Transmittal Form Group (for an Application) Drawing(s) Appeal Communication to Board Fee Attached of Appeals and Interferences Declaration and Power of |X| Amendment / Reply Appeal Communication to Group Attorney (Appeal Notice, Brief, Reply Brief) Licensing-related Papers After Final **Proprietary Information** Petition Affidavits/declaration(s) Status Letter Petition to Convert to a Extension of Time Request Other Enclosures **Provisional Application** Power of Attorney, Revocation **Express Abandonment Request** 2. Change of Correspondence 3. Information Disclosure Statement Address 4. **Terminal Disclaimer** Certified Copy of Priority 5. Document(s) Request for Refund Response to Missing Parts/ CD, Number of CD(s) Incomplete Application Remarks The Commissioner is hereby authorized to charge any additional Response to Missing Parts fees required or credit any overpayments to Deposit Account No. 50under 37 CFR 1.52 or 1.53 2280 for the above identified docket number. SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Eric J. Robinson, Reg. No. 38,285 Firm Robinson Intellectual Property Law Office, P.C. **PMB 955** Individual name 21010 Southbank Street Potomac Falls, VA 20165 Signature Date -January 22, 2004 **CERTIFICATE OF MAILING** I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below. Type or printed name adilim Stampu Date January 22, 2004 Signature

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Effective 10/01/2003. Patent fees are subject to annual revision. ☐ Applicant Claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT

Signature

(\$) 750.00

Complete if Known						
Application Number	10/084,935					
Filing Date	March 1, 2002					
First Named Inventor	Shunpei YAMAZAKI et al.					
Examiner Name	B. Baumeister	_				
Group Art Unit	2815					
Attorney Docket No.	0756-2447					

Date

January 22, 2004

METHOD OF PAYMENT				FEE CALCULATION (continued)								
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Name (Print/T	ype)	Eric J. Robin	SOII		orney/A		38	3,285	Telephone	(3/1)434-0/0		